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Price List

Advanced FULL HD(1080P)			
Model		Descriptions	
	HDB-M120 (NEAB5)	• H.264 Advanced FULL HD Box Camera • H.264/MJPEG, 1920x1080p@30fps, Multi streaming, 1/2.8" CMOS, WDR, D/N(ICR), 3DNR, DIS, Alarm, Audio, BNC out, SD card slot, RS485, 12VDC/24VAC/PoE, ONVIF support	

Advanced FULL HD(1080P)			
Model		Descriptions	
	HDG-M120 (NERS7)	• H.264 Advanced FULL HD Vandal dome Camera • H.264/MJPEG, 1920x1080p@30fps, Multi streaming, 1/2.8" CMOS, WDR, D/N(ICR), 3DNR, DIS, Alarm, Audio, BNC out, SD card slot, 3-9mm lens, 12VDC/24VAC/PoE, ONVIF support	

Advanced FULL HD(1080P)			
Model		Descriptions	
	HDG-M220F (NBSS7)	• H.264 Advanced FULL HD IR ABF Vandal dome Camera • H.264/MJPEG, 1920x1080p@30fps, Multi streaming, 1/2.8" CMOS, WDR, D/N(ICR), DNR, Alarm, Audio, BNC out, SD card slot, Auto Back Focus 3-9mm lens, 12VDC/24VAC/PoE, ONVIF support	

Advanced FULL HD(1080P)			
Model		Descriptions	
	HDA-S422F (NBBW2)	• H.264 Full HD 20x All In One IR Camera • H.264/MJPEG 1920x1080@30fps, Multi streaming, 1/3 CMOS, 20x AF Zoom, IR, D&N, WDR, SD card slot, 12VDC/24VAC/PoE, ONVIF support	

Advanced FULL HD(1080P)			
Model		Descriptions	
	HDS-S422W (NBAR3)	• H.264 Full HD 20x Speed dome Camera • H.264/MJPEG 1280x960@20fps, 1280x720@30fps, Multi streaming, 1/3 CMOS, 20x AF Zoom, D&N, WDR, SD card slot, 12VDC/24VAC/PoE, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	HDB-T320 (NSAB5)	• H.264 FULL HD Box Camera • H.264/MJPEG, 1920x1080p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, Audio, BNC out, SD card slot, RS485, 12VDC/24VAC/PoE, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	HDG-T320 (NSRS7)	• H.264 FULL HD Vandal dome Camera • H.264/MJPEG, 1920x1080p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, Audio, BNC out, SD card slot, 3-9mm lens, 12VDC/24VAC/PoE, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	NVT-4211R	• H.264 FULL HD IR RBF Vandal dome Camera • H.264/MJPEG, 1920x1080p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, Audio, BNC out, SD card slot, Remote Back Focus 3-9mm lens, 12VDC/24VAC/PoE, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	HDG-T322 (NSRA8)	• H.264 FULL HD Plastic Dome Camera • H.264/MJPEG, 1920x1080p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, SD card slot, 3-9mm lens, 12VDC/PoE, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	NUT-4201D	• H.264 FULL HD IR Bullet Camera • H.264/MJPEG, 1920x1080p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, Audio, BNC out, motorized 3-9mm lens, 12VDC/24VAC/PoE, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	NUT-4101D	• H.264 HD IR Dome Camera • H.264/MJPEG, 720p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, Audio, BNC out, 3-9mm lens, 12VDC/24VAC/PoE, IR LED, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	NUT-4102R	• H.264 HD IR Bullet Camera • H.264/MJPEG, 720p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, 3.6mm lens, 12VDC/PoE, ONVIF support	

FULL HD(1080P)			
Model		Descriptions	
	NUT-4202R	• H.264 FULL HD IR Bullet Camera • H.264/MJPEG, 1920x1080p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, 3.6mm lens, 12VDC/PoE, ONVIF support	

2MP(1600x1200)			
Model		Descriptions	
	HEB2MPN1	• H.264 2 Mega Pixel Box Camera • H.264/MJPEG, 1600x1200@15fps, Multi streaming, 1/3.2" CMOS, D/N(ICR), Alarm, Audio, BNC out, SD card slot, RS485, 12VDC/24VAC/PoE, ONVIF support	

2MP(1600x1200)			
Model		Descriptions	
	HEV2MPN1	• H.264 2 Mega Pixel VP Camera • H.264/MJPEG, 1600x1200@15fps, Multi streaming, 1/3.2" CMOS, D/N(ICR), Alarm, Audio, BNC out, SD card slot, 3-9mm lens, 12VDC/24VAC/PoE, ONVIF support	

2MP(1600x1200)			
Model		Descriptions	
	NCT-5231	• H.264 2MegaPixel Cube Camera • H.264/MJPEG, 1600x1200@15fps, Triple streaming, 1/4" CMOS, WIFI, PIR, White LED, Mic, Speaker, SD card slot, 2.6mm fixed lens, 5VDC, ONVIF support	

2MP(1600x1200)			
Model		Descriptions	
	NCT-5241	• H.264 2MegaPixel Cube Camera • H.264/MJPEG, 1600x1200@15fps, Triple streaming, 1/4" CMOS, PIR, White LED, Mic, Speaker, SD card slot, 2.6mm fixed lens, PoE/5VDC, ONVIF support	

2MP(1600x1200)			
Model		Descriptions	
	NCT-5201	• H.264 2MegaPixel Cube Camera • H.264/MJPEG, 1600x1200@15fps, Triple streaming, 1/4" CMOS, WIFI, SD card slot, 2.6mm fixed lens, 5VDC, ONVIF support	

2MP(1600x1200)			
Model		Descriptions	
	NCT-5211	• H.264 2MegaPixel Cube Camera • H.264/MJPEG, 1600x1200@15fps, Triple streaming, 1/4" CMOS, SD card slot, 2.6mm fixed lens, PoE/5VDC, ONVIF support	

1.3MP HD(720p)			
Model		Descriptions	
	HDB-T300 (NSAB5)	• H.264 HD Box Camera • H.264/MJPEG, 720p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, Audio, BNC out, SD card slot, RS485, 12VDC/24VAC/PoE, ONVIF support	

1.3MP HD(720p)			
Model		Descriptions	
	HDG-T300 (NSRS7)	• H.264 HD Vandal Dome Camera • H.264/MJPEG, 720p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, Audio, BNC out, SD card slot, 3-9mm lens, 12VDC/24VAC/PoE, ONVIF support	

1.3MP HD(720p)			
Model		Descriptions	
	HDG-T312 (NSRA8)	• H.264 HD Plastic Dome Camera • H.264/MJPEG, 720p@30fps, Dual streaming, 1/2.7" CMOS, D/N(ICR), 2DNR, Alarm, SD card slot, 3-9mm lens, 12VDC/PoE, ONVIF support	

1.3MP HD(720p)			
Model		Descriptions	
	HDZ-A411 (NFAZ5)	• H.264 HD 18x Box Camera • H.264/MJPEG 1280x960@20fps, 1280x720@30fps, Multi streaming, 1/3 CCD, 18x AF Zoom, D&N, WDR, f=4.7~84.6mm, SD card slot, 12VDC/24VAC/PoE, ONVIF support	

1.3MP HD(720p)			
Model		Descriptions	
	HDA-A411F (NAAW2)	• H.264 HD 18x All In One IR Camera • H.264/MJPEG 1280x960@20fps, 1280x720@30fps, Multi streaming, 1/3 CCD, 18x AF Zoom, IR, D&N, WDR, PoE, f=4.7~84.6mm, SD card slot, 12VDC/24VAC/PoE, ONVIF support	

1.3MP HD(720p)			
Model		Descriptions	
	HDS-A411 (NEAR3)	• H.264 HD 18x Speed dome Camera • H.264/MJPEG 1280x960@20fps, 1280x720@30fps, Multi streaming, 1/3 CCD, 18x AF Zoom, D&N, WDR, f=4.7~84.6mm, SD card slot, 12VDC/24VAC/PoE, ONVIF support	

D1			
Model		Descriptions	
	HEV0118H	• H.264 1CH Video Server • H.264/MPEG4/MJPEG, 720x480(D1)@30fps, Dual streaming, Alarm, Audio, RS485, 12VDC/24VAC/PoE, ONVIF support	

D1			
Model		Descriptions	
	HPCB- E5WNH9	• H.264 D1 Box Camera • H.264/MPEG4/MJPEG, 720x480(D1)@30fps, Dual streaming, Sony 1/3" CCD, 560TVL, D/N(ICR), DNR, DSS, Alarm, Audio, BNC out, RS485, 12VDC/24VAC/PoE, ONVIF support	

D1			
Model		Descriptions	
	HPCG- E5WNW5S7H8	• H.264 D1 VP Camera • H.264/MPEG4/MJPEG, 720x480(D1)@30fps, Dual streaming, Sony 1/3" CCD, 560TVL, D/N(ICR), DNR, DSS, Alarm, Audio, BNC out, 2.8-12mm lens, 12VDC/24VAC/PoE, Vandal proof, ONVIF support	

D1			
Model		Descriptions	
	HNG-D312S (NSKA8)	• H.264 D1 Plastic Dome Camera • H.264/MPEG4/MJPEG, 720x480(D1)@30fps, Dual streaming, Sony 1/3" CCD, 560TVL, D/N(ICR), DNR, DSS, Alarm, 2.8-12mm, 12VDC/PoE, ONVIF support	

D1			
Model		Descriptions	
	HNV3H22D1NSH1	• H.264 D1 VP 22x PTZ Camera • H.264/MPEG4/MJPEG, 720x480(D1)@30fps, Dual streaming, 22x AF PTZ, Sony 1/4" Exview CCD, 580TVL WDR, D/N(ICR) DNR, DSS , Alarm, Audio, BNC out, RS485, 12VDC, Vandal Proof, ONVIF support	

D1			
Model		Descriptions	
	HNS-P183 (NEAR3)	• H.264 D1 36x Speed Dome Camera • H.264/MPEG4/MJPEG, 720x480(D1)@30fps, Dual streaming, 36x AF PTZ, Sony 1/4" Exview CCD, 540TVL WDR, D/N(ICR) DNR, DSS , Alarm, Audio, 12VDC/24VAC/PoE, ONVIF support	

D1			
Model		Descriptions	
	HNS-S113J (NBAR3)	• H.264 D1 36x Speed Dome Camera • H.264/MPEG4/MJPEG, 720x480(D1)@30fps, Dual streaming, 36x AF PTZ, Sony 1/4" Exview CCD, 540TVL WDR, D/N(ICR) DNR, DSS , Alarm, Audio, Auto Tracking & Video Analytics, Coaxitron, Scheduling, 12VDC/24VAC/PoE, ONVIF support	

VGA			
Model		Descriptions	
	HPCB-C1AAH3S	• H.264 VGA Box Camera • H.264/MPEG4/MJPEG, 640x480@30fps, Dual streaming, 1/4" CMOS SD card slot, DC12V/PoE , ONVIF support	

VGA			
Model		Descriptions	
	HPCG-C1AAW4AH1H0S	• H.264 VGA Plastic Dome Camera • H.264/MPEG4/MJPEG, 640x480@30fps, Dual streaming, 1/4" CMOS Varifocal Plastic Dome, SD card slot, 2.8-12mm, DC12V/PoE , ONVIF support	

NVR			
Model		Descriptions	
	HNS-P11610	• NVR • 16ch Full HD real-time rec. 1U, 2 removable HDD tray, no local display out, without HDD	

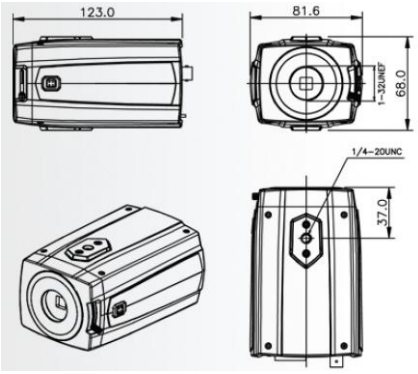
NVR			
Model		Descriptions	
	HNS-P11620	• NVR • 16ch Full HD real-time rec. 2U, 4 removable HDD tray, no local display out, without HDD	

HDB-M120

Advanced Full HD Resolution Network Camera

FEATURES

- Full-HD Resolution Supported
- WDR Supported
- 3DNR
  (3 Dimensional Noise Reduction)
- ONVIF Supported
- BLC (Back Light Compensation)
- HSBLC (Highlight Suppression BLC)
- DIS (Digital Image Stabilization)
- Two-way Audio
- SD Supported
- Multiple Compressions
  (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert



SPECIFICATIONS

Model	HDB-M120
Image Sensor	1/2.8" CMOS
Lens	Optional (Megapixel, C/CS mount)
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	3DNR
D&N	True D&N (IR-cut filter)
WDR	Yes (68dB)
DIS	Yes
BLC	Yes
Video Out	1BNC
Progressive Encoding	Yes
Compression	H.264(High, Main, Base line profile), MJPEG
Resolution Support	1080p, 720p, D1, VGA, QVGA
Frame Rate	1920x1080p @ 30fps
Multiple Streaming	Max.4 Multiple stream (3x H.264 and 1x MJPEG)
Audio In/Out	1 Mic / 1 Speaker (G711)
Alarm In/Out	2 / 1
RS485	Yes
Ethernet	10/100Mbps
Memory Slot	SD
Motion Detection	Max.12 Areas
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	H.264 CBR Mode : up to 8Mbps

Event Buffering(Pre/Post)	Yes
Event Notification	Yes
Privacy Masking	Yes
PrVA(Pre-Recording Voice Alert)	Yes
Web Casting	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, IPv4
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Under 4.5W
Operating Temperature	-10℃ to +50℃
Approvals	FCC, CE, UL, MIC

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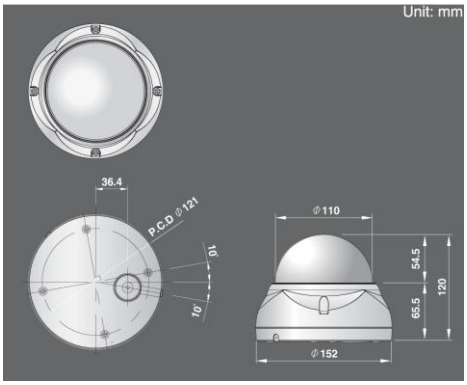
HDG-M120

Advanced Full HD Resolution Vandal-proof Dome Network Camera

FEATURES

- Full-HD Resolution Supported
- WDR Supported
- 3DNR (3 Dimensional Noise Reduction)
- ONVIF Supported
- BLC (Back Light Compensation)
- HSBLC (Highlight Suppression BLC)
- DIS (Digital Image Stabilization)
- Two-way Audio
- Micro SD Supported
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert



SPECIFICATIONS

Model	HDG-M120
Image Sensor	1/2.8" CMOS
Lens	Megapixel 3 ~ 9mm Variable Focal Lens
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	3DNR
D&N	True D&N (IR-cut filter)
WDR	Yes (68dB)
DIS	Yes
BLC	Yes, HSBLC
Video Out	1BNC
Progressive Encoding	Yes
Compression	H.264(High, Main, Base line profile), MJPEG
Resolution Support	1080p, 720p, D1, VGA, QVGA
Frame Rate	1920x1080p @ 30fps
Multiple Streaming	Max.4 Multiple stream (3x H.264 and 1x MJPEG)
Audio In/Out	1 Mic / 1 Speaker (G711)
Alarm In/Out	2 / 1
RS485	Yes
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Max.12 Areas
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	H.264 CBR Mode : up to 8Mbps

Event Buffering(Pre/Post)	Yes
Event Notification	Yes
Privacy Masking	Yes
PrVA(Pre-Recording Voice Alert)	Yes
Web Casting	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, IPv4
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Under 4.5W
Operating Temperature	-10 ~ +50℃
Approvals	FCC, CE, UL, MIC

All specifications are subject to change without notice.

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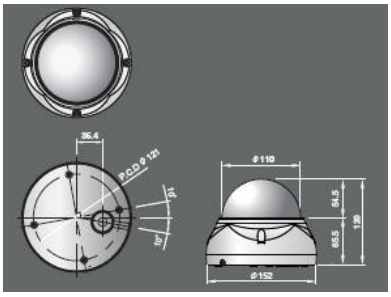
HDG-M220F *Ultra High Resolution : Advanced Full HD Network Camera*

Feature

- ABF (Auto Back Focus)
- Zoom Ratio : Total 36x (Optical 3x, Digital 12x)
- Full HD 1080p Resolution Supported
- WDR Supported
- NR (Noise Reduction)
- Day & Night (IR Cut Filter)
- IR LED (18EA)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Dual Compression (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- VMD (Video Motion Detection)
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Pre-recorded Voice Alert
- Zoom Preset Mode (Max. 16EA)
- IP66



Specification

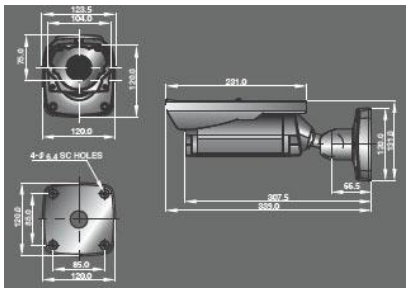
Model	HDG-M220F
IMAGE	
Lens	Optical Zoom 3x(f=3.0mm ~ 9.0mm) F1.2(wide) ~ F2.1(tele)
Image Sensor	1/2.8" Exmor CMOS
Angle of View (H)	1080 mode : Approx. 90 degrees (WIDE end)
Effective Pixels	1920(H) x 1080(V)
Scanning Mode	Progressive Scan
Electronic Shutter Speed	1/1sec ~ 1/10,000sec (22 steps)
White Balance	Auto WB, ATW, Indoor, Outdoor(fix/auto), Sodium Vapor Lamp mode(fix, auto), Manual WB
Wide Dynamic Range	Yes
True Day & Night	Yes (IR Cut Filter)
Noise Reduction	Yes (2D)
Aperture Control	Yes (16 steps)
Min. Illumination	0.25lx (Shutter speed 1/30sec, High sensitivity On) ICR-ON mode : 0.03lx (Shutter speed 1/30sec, High sensitivity On)
Slow AE Response	Yes (Approx. 5 minutes)
Gain Control	Auto/Manual (-3 to 28dB, 2dB 16steps)
AE Control	Manual, Priority mode(Shutter priority & iris priority), Bright Slow AE
Focusing Mode	Day & Night Sync Focus, One Push Focus, Manual Focus
Digital Zoom	12x (x36 with optical zoom)
VIDEO	
Compression	H.264 (High, Main, Base line profile), MJPEG
Resolution	1920x1080p @ 30/25fps
Bit rate	H.264 CBR Mode : Up to 6Mbps
Streaming	Max. 4 Multiple stream (3x H.264 and 1x MJPEG)
AUDIO	
Compression	G.711
Streaming	Full Duplex
EXTERNAL IN / OUT	
Video	1 BNC (NT/PAL Selectable, Composite Out)
Audio	1 Microphone In, 1 Speaker Out
Alarm	2 Inputs, 1 Output
RS485	No

Local Storage	Micro SD Card (Optional)
Ethernet	RJ-45 (10/100 Base-T)
H/W Factory Reset	Yes
IR LED	18EA (Max. 20 meters)
SYSTEM	
Easy Focus	Yes
Video Preset	Yes
Video Motion Detection	Max. 12 Areas
Video Flip / Mirror	Yes
Digital Cropping	Yes
FTP Uploading	Yes
Event Notification	Yes
Audio Alert	Yes
Anonymous Login	Yes
Pre/Post Event Buffering	Yes
Manual Trigger	Yes
Security	Multi User Authority, IP Filtering, HPPTS, SSL
Network Time Sync	Yes
Software Reset	Yes
Factory Reset	Yes
Auto Recovery	Yes
Remote Upgrade	Yes
NETWORK	
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
Remote Access Software	Web, Smart Manager, NC-Titanium
Max. User Connection	10 Users
ETC	
Operating Temperature	-10℃ to +50℃
Power Supply	PoE (IEEE802.3af compliant, Class 0), DC12V, AC24V
Power Consumption	Max. 7W
Approvals	FCC, CE, UL, MIC

HAD-S422F *Ultra High Resolution : 20x IR AIO AF FULL HD Network Camera*

Feature

- 1.3MP Resolution Supported (1280 x 960)
- Built in IR
- WDR Supported
- FNR (Frame Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Dual Compression (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Pre-recorded Voice Alert
- IP66



Specification

Model	HAD-S422F
IMAGE	
Image Sensor	1/3"CMOS
Effective Pixel	T.B.D
Lens	Optical Zoom 20x(f=4.7 ~ 94mm) F1.6(wide) ~ F3.5(tele) Digital Zoom12x
Scanning Mode	Progressive Scan
Min. Illumination	Color : 0.26Lux, B/W : 0.005Lux (F1.6, 50IRE)
AE/AWB	Yes
DNR	FNR
D & N	True D & N (IR Cut Filter)
WDR	Yes
DIS	No
BLC	BLC
VIDEO	
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(HP/MP/BP), MJPEG
Resolution Supported	1080p, 720p, D1, VGA, QVGA
Frame Rate	1920x1080p @ 30fps, 1280x720p @ 30fps (60fps : T.B.D)
Multiple Streaming	Max.4 Multiple stream (3x H.264 and 1x MJPEG)
IN / OUT	
Audio In/Out	In x 1 / Out x 1 (G.711)
Alarm In/Out	In x 2 / Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Max. 12 Areas)
Event Buffering (Pre & Post)	Yes (2s/60s)

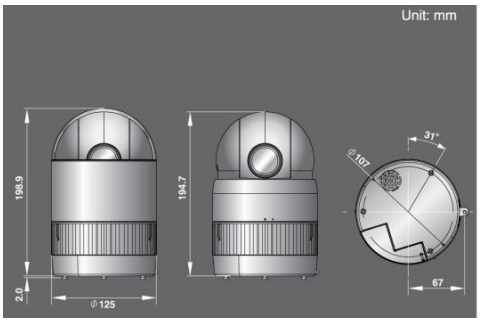
Privacy Masking	No
PrVA (Pre-recorded Voice Alert)	Yes (3 files)
Video Analytics	No
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, SNMP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class 2
Power	PoE, DC12V, AC24V
Power Consumption	Max. 10W
Operating Temperature	-30℃ ~ +50℃ (T.B.D)
Humidity	0 ~ 90% RH
External Dimension	231 x 339 x 120 mm

HDS-S422W

Advanced Full HD Resolution 20x High Speed Dome Network Camera

FEATURES

- 20x Auto Focus Zoom Lens
- 2MP Resolution Supported (1280 x 960)
- WDR Supported
- DNR
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Dual Compressions (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Pre-recorded Voice Alert
- 360◦ Continuous Rotation
- 180◦ Digital Flip
- 8 Auto Scan and Endless Panning
- 8 Tours, 8 Patterns to 500 Seconds



SPECIFICATIONS

Model	HDS-S422W
Image Sensor	1/3" CMOS
Lens	Optical Zoom 20x(f=4.7 ~ 94mm) F1.6(wide) ~ F3.5(tele) Digital Zoom 12x
Scanning Mode	Progressive Scan
Min. Illumination	Color : 0.26Lux, B/W : 0.005Lux (F1.6, 50IRE)
AE/AWB	Yes
DNR	DNR
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	No
BLC	BLC
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(BP / MP / HP), MJPEG
Resolution Support	1080p, 720p, D1, VGA, QVGA
Frame Rate	1920x1080p @ 30fps 1280x720p @ 30fps (60fps : T.B.D)
Multiple Streaming	Max.4 Multiple stream (3x H.264 and 1x MJPEG)
Audio In/Out	In x 1 / Out x 1 (G711)
Alarm In/Out	2 / 1
RS485	RS485
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Max.12 Areas
Event Buffering(Pre/Post)	Yes (2s / 60s)
Privacy Masking	Yes
PrVA(Pre-Recording Voice Alert)	Yes (3 files)

Video Analytics	No
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, SNMP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class2
Power	PoE, DC 12V, AC 24V
Power Consumption	MAX. 17W
Operating Temperature	0 ~ 50℃
Humidity	0 ~ 90% RH
External Dimension	Φ 125 X 194.7 mm
Approvals	T.B.D
Pan Range	360◦ Endless
Pan Speed	380◦ / sec , Maximum preset : 380◦ / sec
Tilt Range	200◦ (-10◦ ~ 190◦)
Tilt Speed	Max 300◦ , Preset : 380◦ / sec
Preset	240
Auto Tracking	No

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HDB-T320

Full HD Resolution Network Camera

FEATURES

- Full HD 1080p Resolution Supported
- 2 DNR
  (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Multiple Compressions
  (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert

SPECIFICATIONS

Model	HDB-T320
Image Sensor	1/2.7" CMOS
Lens	Optional (Megapixel, C/CS mount)
Scanning Mode	Progressive Scan
Min. Illumination	Color ; 2.5Lux, B/W ; 0.2Lux (F1.2, 50IRE)
AE/AWB	Yes
DNR	2 DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	BLC
Video Out	1 BNC (Max. D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA / 25fps @ H.264 1080p + 30fps @ MJPEG VGA / 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Dual
Audio In/Out	1 / 1 (G711)
Alarm In/Out	1 / 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event	Yes (up to 64MB)

Buffering(Pre/Post)	
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (3 files)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temp.	0˚C to 50˚C
Humidity	0 to 90% RH
External Dimension	68(H) x 81.6(W) x 123.1(D) mm
Approvals	T.B.D

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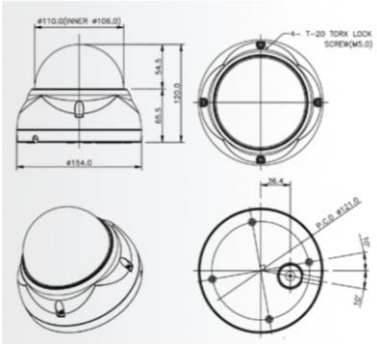
HDG-T320

Full HD Resolution Vandal-proof Dome Network Camera

FEATURES

- Full-HD Resolution Supported
- DNR (Digital Noise Reduction)
- ONVIF Supported
- Micro SD Supported
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- IP66



SPECIFICATIONS

Model	HDG-T320
Image Sensor	1/2.7" CMOS
Lens	Thamron 3.0 ~ 9.0mm , F1.2
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	DWDR (1280x720 and under) (T.B.D)
DIS	T.B.D
BLC	No
Video Out	1 BNC (Max.D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF, QCIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA / 25fps @ H.264 1080p + 30fps @ MJPEG QVGA / 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Yes
Audio In/Out	1/1 Stereo Jack (G711)
Alarm In/Out	1/1 Terminal
RS485	No
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	Yes, H.264 CBR (up to 8Mbps)
Event Buffering(Pre/Post)	Yes (up to 64MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (4 files)
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	IP66
PoE	802.3af Class2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temperature	0 ~ 50˚C (T.B.D)
Approvals	FCC, CE, UL

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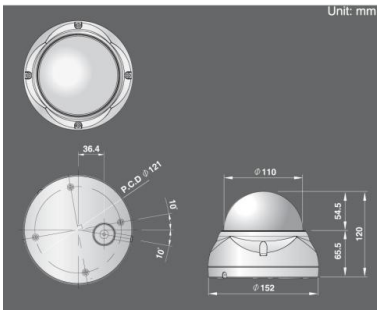
NVT-4211R *Ultra High Resolution IR Vandal Proof FULL HD NETWORK CAMERA*

FEATURES

- x3 Motorized Zoom & Focus Lens
- Full HD 1080p Resolution Supported
- Triple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Built in IR (24EA)
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Auto Focusing when D/N Transition
- Remote Zoom & Focus Control via Network
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering / FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP 66
- Triple Power : DC 12V, PoE, AC 24



SPECIFICATION

Model	NVT-4211R
IMAGE	
Image Sensor	1/2.8" CMOS
Effective Pixel	1920(H) x 1080(V)
Lens	Tamron 3mm ~ 9mm, F1.2 Motorized Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color : 2.5lux, B/W : 0lux (IR ON)
IR	24 x IR (25m)
AE/AWB	Yes
DNR	2DNR
D & N	True D & N (IR-cut filter)
WDR	No
BLC	BLC
VIDEO	
Video Out	Yes (D1 for Installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Supported	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p / 30fps @ H.264 720p
Multiple Streaming	Triple (2 x H.264 and 1 x MJPEG)
IN / OUT	
Audio In/Out	Yes
Alarm In/Out	Yes
Ethernet	10/100Mbps
Local Storage	Micro SD
WiFi	No
PIR Sensor	No
Built in Mic / Speaker	No
White LED	No
FEATURE	
Motion Detection	Yes (Total 16 Include/Exclude windows)

Event Buffering (Pre & Post)	Yes (up to 64MB)
Privacy Masking	Yes (8 windows)
Auto Focus when D/N Transition	Yes
Remote Focus & Zoom Control	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Zeroconfig, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Smart Manager, NC-Titanium
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 15W (Tentative)
Operating Temperature	-30˚C ~ +50˚C (with Heater)
Humidity	0 ~ 90% RH
External Dimension	120(H) x 152(ϕ) mm
Approvals	FCC, CE, UL

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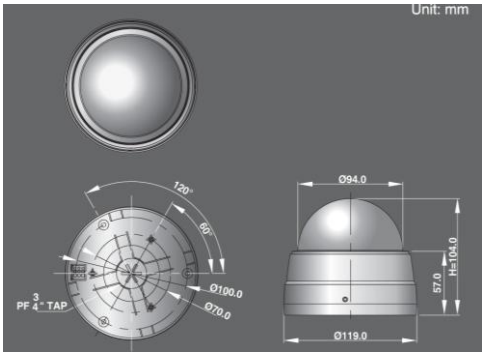
HDG-T322

Full HD Resolution Indoor Dome Network Camera

FEATURES

- Full-HD resolution Supported (1920 x 1080)
- ONVIF Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Dual Streaming
- DNR (Digital Noise Reduction)
- Digital WDR (Wide Dynamic Rage)
- BNC for Installation (Focus, Angle, ...)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)



SPECIFICATIONS

Model	HDG-T322
Image Sensor	1/2.7" CMOS
Lens	Thamron 3.0 ~ 9.0mm , F1.2
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	No
BLC	No
Video Out	1 BNC (Max. D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	1080p, 720p, D1, Half-D1, VGA, QVGA, CIF, QCIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA 25fps @ H.264 1080p + 30fps @ MJPEG VGA 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Yes
Audio In/Out	No
Alarm In/Out	1 / 1 Terminal
RS485	No
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	Yes, H.264 CBR (up to 8Mbps)

Event Buffering(Pre/Post)	Yes (up to 64MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (4 files)
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class2
Power	PoE, DC 12V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temperature	0 ~ 50˚C (T.B.D)
Approvals	FCC, CE, UL

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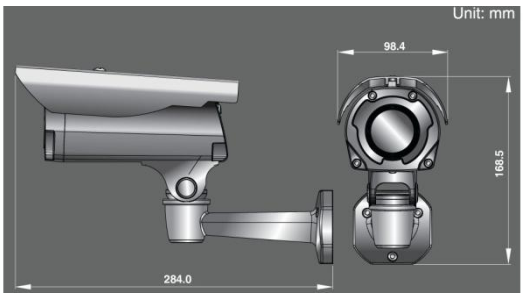
NUT-4201D *Ultra High Resolution : IR Bullet Full HD Network Camera*

Feature

- Full-HD 1080p Resolution Supported
- Built in IR (32EA)
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Auto Focusing when D/N Transition
- Remote Zoom & Focus Control via Network
- Smart Focus
- Smart IR
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP66



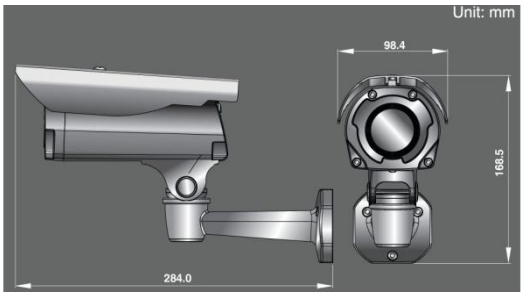
Specification

Model	NUT-4201D
IMAGE	
Image Sensor	1/2.8"CMOS
Lens	Tamron 3mm ~ 9mm, F1.2 Motorized Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color : 0.2Lux, B/W : 0Lux @ F1.2, 50IRE
AE/AWB	Yes
DNR	2DNR
D & N	True D & N (IR Cut Filter)
WDR	No
DIS	No
BLC	BLC
VIDEO	
Video Out	3 Pole Jack (Max. D1 for installation) : Rear Panel
Progressive Encoding	Yes
Compression	H.264(HP/MP/BP), MPEG4(ASP/SP), MJPEG
Resolution Supported	1080p, 720p, D1, Half-D1, VGA, QVGA,CIF
Frame Rate	30fps @ H.264 1080p + 5fps @ MJPEG QVGA 30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Triple
IN / OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre & Post)	Yes (10s/180s)
Privacy Masking	Yes (8 windows)
PrVA (Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDT, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class 2
Power	PoE, DC12V, AC24V (T.B.D)
Power Consumption	Max. 10.5W (T.B.D)
Operating Temperature	-10℃ ~ +50℃ (without Heater) -30℃ ~ +50℃ (with Heater, T.B.D)
Humidity	0 ~ 90% RH
External Dimension	284 x 98.4 x 168.5 mm
Approvals	T.B.D

NUT-4101D *Ultra High Resolution : IR Bullet Full HD Network Camera*

Feature

- 720p Resolution Supported
- Built in IR (32EA)
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Auto Focusing when D/N Transition
- Remote Zoom & Focus Control via Network
- Smart Focus
- Smart IR
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP67
- Built in Heater



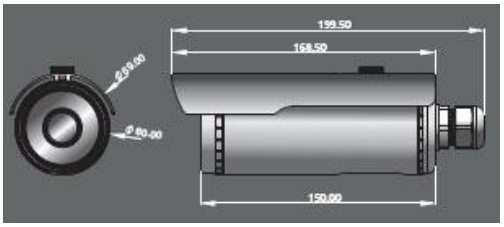
Specification

Model	NUT-4101D
IMAGE	
Image Sensor	1/2.8"CMOS
Lens	Tamron 3mm ~ 9mm, F1.2 Motorized Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color : 0.2Lux, B/W : 0Lux @ F1.2, 50IRE with IR On
AE/AWB	Yes
DNR	2DNR
D & N	True D & N (IR Cut Filter)
WDR	No
DIS	No
BLC	BLC
Built-in IR	32EA, Max 25m
Remote-Focus	Smart-Focus
VIDEO	
Video Out	Yes (Phone Jack)
Progressive Encoding	Yes
Compression	H.264(HP/MP/BP), MPEG4(SP), MJPEG
Resolution Supported	720p, D1, Half-D1, VGA, QVGA,CIF
Frame Rate	30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Triple
IN / OUT	
Audio In/Out	No
Alarm In/Out	No
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre & Post)	Yes
Privacy Masking	Yes (8 windows)
PrVA (Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Easy Remocon	Yws
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDT, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
MISCELLANEOUS	
Weatherproof	Yes (IP67)
PoE	802.3af Class 2
Power	PoE, DC12V
Power Consumption	Max. 4.3W / 24W (Heater on)
Operating Temperature	-10℃ ~ +50℃ / -30℃ ~ +50℃ (with Heater)
Humidity	0 ~ 90% RH
External Dimension	284 x 98.4 x 168.5 mm
Weight	1100g

NUT-4102R *1.3M Resolution : Mini IR Bullet Full HD Network Camera*

Feature

- 720p Resolution Supported
- Built in IR (20EA)
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Smart IR
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP67



Specification

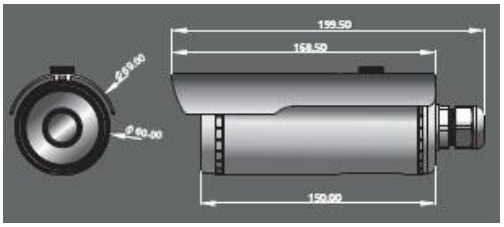
Model	NUT-4102R
IMAGE	
Image Sensor	1/2.8"CMOS
Lens	3.7mm, F1.8 Fixed Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color : 1.6Lux, B/W : 0.0Lux (F1.8, 50IRE with IR On)
AE/AWB	Yes
DNR	2DNR
D & N	True D & N (IR Cut Filter)
WDR	No
DIS	No
BLC	BLC
VIDEO	
Video Out	3 Pole Jack (Max. D1 for installation) : Rear Panel
Progressive Encoding	Yes
Compression	H.264(HP/MP/BP), MPEG4(SP), MJPEG
Resolution Supported	720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 1080p + 5fps @ H.264 QVGA +5fps @ MJPEG QVGA
Multiple Streaming	Triple
IN / OUT	
Audio In/Out	No
Alarm In/Out	In x 1 / Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Yes (Micro SD)
FEATURE	
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre & Post)	FTP : Yes (30s/30s), Record : Yes (10s/60s)
Privacy Masking	Yes (8 windows)

PrVA (Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	TCP/IP, UDP, IPv4/IPv6, HTTP, HTTPS, Qos, FTP, uPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, Smart Manager
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class 2
Power	PoE, DC12V, AC24V
Power Consumption	DC12V 420mA (5.1W), AC24V 370mA (5.8W), PoE 130mA (6W)
Operating Temperature	-10℃ ~ +50℃
Humidity	0 ~ 90% RH
External Dimension	195.5 x 168.5 x 150 mm

NUT-4202R *Ultra High Resolution : Mini IR Bullet Full HD Network Camera*

Feature

- Full-HD 1080p Resolution Supported
- Built in IR (20EA)
- 2DNR (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- Smart IR
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- IP67



Specification

Model	NUT-4202R
IMAGE	
Image Sensor	1/2.8"CMOS
Lens	3.7mm, F1.8 Fixed Lens
Scanning Mode	Progressive Scan
Min. Illumination	Color : 1.6Lux, B/W : 0.0Lux (F1.8, 50IRE with IR On)
AE/AWB	Yes
DNR	2DNR
D & N	True D & N (IR Cut Filter)
WDR	No
DIS	No
BLC	BLC
VIDEO	
Video Out	3 Pole Jack (Max. D1 for installation) : Rear Panel
Progressive Encoding	Yes
Compression	H.264(HP/MP/BP), MPEG4(SP), MJPEG
Resolution Supported	1080p, 720p, 4CIF, CIF, VGA, QVGA
Frame Rate	30fps @ H.264 1080p + 5fps @ H.264 QVGA +5fps @ MJPEG QVGA
Multiple Streaming	Triple
IN / OUT	
Audio In/Out	No
Alarm In/Out	In x 1 / Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Yes (Micro SD)
FEATURE	
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre & Post)	FTP : Yes (30s/30s), Record : Yes (10s/60s)
Privacy Masking	Yes (8 windows)

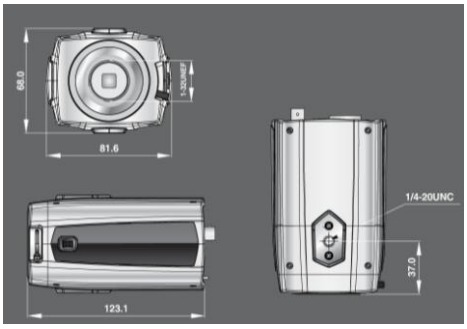
PrVA (Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	TCP/IP, UDP, IPv4/IPv6, HTTP, HTTPS, Qos, FTP, uPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, NC-Titanium, Smart Manager
MISCELLANEOUS	
Weatherproof	Yes
PoE	802.3af Class 2
Power	PoE, DC12V, AC24V
Power Consumption	DC12V 420mA (5.1W), AC24V 370mA (5.8W), PoE 130mA (6W)
Operating Temperature	-10℃ ~ +50℃
Humidity	0 ~ 90% RH
External Dimension	195.5 x 168.5 x 150 mm

HEB2MPN1

2Megapixel Resolution Network Camera

FEATURES

- 2MP Resolution Supported
- ONVIF Supported
- SD Supported
- Day & Night (IR Cut Filter)
- Two-way Audio Supported
- ROI (Region of Interest) Supported
- Easy Focus Functions
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)



SPECIFICATIONS

Model	HEB2MPN1
Image Sensor	1/3.2" CMOS
Lens	C/CS
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	No
D&N	True D&N (IR-cut filter)
WDR	No
BLC	No
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(High, Main, Base line profile), MJPEG
Resolution Support	1600x1200, 1280x1024, 1152x864, 1280x720, 720x576, 720x480, 640x480, 320x240
Frame Rate	15fps @ 1600x1200 24fps @ 1280x1024 30fps @ 1152x864 30fps @ 720x480
Multiple Streaming	Yes
Audio In/Out	1 / 1 Stereo Jack (G711)
Alarm In/Out	2 / 1
RS485	No
Ethernet	10/100Mbps
Memory Slot	SD
Motion Detection	Max.12 Areas
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic	H.264 CBR Mode : up to 8Mbps

Adjustable Bit Rate)	
Event Buffering(Pre/Post)	Yes
Event Notification	Yes
Privacy Masking	Yes
PrVA(Pre-Recording Voice Alert)	Yes
Web Casting	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, IPv4
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class2
Power	PoE, DC 12V, AC 24V
Power Consumption	Under 4.5W
Operating Temperature	-10˚C to +50˚C
Approvals	FCC, CE, UL, MIC

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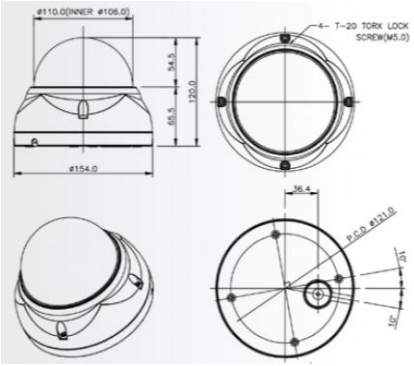
HEV2MPN1

2Megapixel Image Vandal-proof Dome Network Camera

FEATURES

- 2MP Resolution Supported
- ONVIF Supported
- Micro SD Supported
- Day & Night (IR Cut Filter)
- Two-way Audio Supported
- ROI (Region of Interest) Supported
- Easy Focus Functions
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)



SPECIFICATIONS

Model	HEV2MPN1
Image Sensor	1/3.2" CMOS
Lens	3.0 ~ 9.0mm , F1.2
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	No
D&N	True D&N (IR-cut filter)
WDR	No
BLC	No
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(High, Main, Base line profile), MJPEG
Resolution Support	1600x1200, 1280x1024, 1152x864, 1280x720, 720x576, 720x480, 640x480, 320x240
Frame Rate	15fps @ 1600x1200 24fps @ 1280x1024 30fps @ 1152x864 30fps @ 720x480
Multiple Streaming	Yes
Audio In/Out	1 / 1 Stereo Jack (G711)
Alarm In/Out	2 / 1
RS485	No
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Max.12 Areas
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	H.264 CBR Mode : up to 8Mbps
Event Buffering(Pre/Post)	Yes
Event Notification	Yes
Privacy Masking	Yes
PrVA(Pre-Recording Voice Alert)	Yes
Web Casting	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, IPv4
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	IP66
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Under 4.5W
Operating Temperature	-10 ~ +50˚C
Approvals	FCC, CE, UL, MIC

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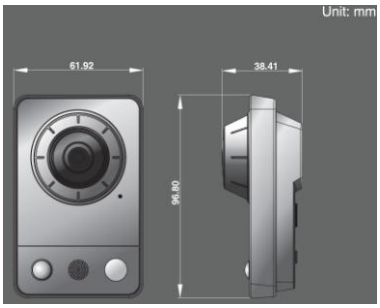
NCT-5241/5231 *HD Cube Camera : Special Cube Camera (wifi optional)*

FEATURES

- HD Megapixel Resolution Supported
- PIR Sensor
- Illumination LED
- Built in MIC / Speaker
- 2DNR (2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Dual Compression (H.264, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking



SPECIFICATION

Model	NCT-5241	NCT-5231
IMAGE		
Image Sensor	1/4" CMOS	
Lens	Fixed f=3.6mm	
Scanning Mode	Progressive Scan	
Min. Illumination	T.B.D	
AE/AWB	Yes	
DNR	2DNR	
D & N	No	
WDR	No	
DIS	No	
BLC	BLC	
ABF/RF	No	
IR	No	
VIDEO		
Video Out	No	
Progressive Encoding	Yes	
Compression	H.264(BP/MP/HP), MJPEG	
Resolution Supported	1600 x 1200, D1, VGA, QVGA	
Frame Rate	1600 x 1200p @ 15fps, 1280 x 720p @ 30fps	
Multiple Streaming	Dual	
IN / OUT		
Audio In/Out	Built IN	
Alarm In/Out	No	
RS485	No	
Ethernet	10/100Mbps	
Local Storage	Micro SD	
FEATURE		
Motion Detection	Max. 12 Areas	
Event Buffering (Pre & Post)	Yes (2s/60s)	
Privacy Masking	Yes	
PrVA (Pre-recorded	Yes	

Voice Alert)		
Video Analytics	No	
Cross Web Browser	Yes	
FTP Image Upload	Yes	
ONVIF Certificate	Yes	
SYSTEM		
Network Time Sync	Yes	
Zero Configuration	Yes	
Security	Password Protection, IP Filtering, HTTPS, SSL	
NETWORK		
Max. Connections	10	
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, SNMP, Bonjour	
NAS Support	Yes	
JPEG push	Yes	
DDNS	Yes (DDNS)	
Remote Client	Web, Nautilus 16, Smart Manager	
MISCELLANEOUS		
Weatherproof	No	
PoE	802.3af Class2	No
Power	PoE, DC 5V	
Power Consumption	3.5W	
Operating Temperature	0˚C ~ 50˚C (T.B.D)	
Humidity	0 ~ 90% RH	
External Dimension	61.92 x 38.41 x 96.80 mm	
MECHANICAL		
PIR Sensor	Yes	
Illumination LED	Yes	
SPEAK & MIC	Yes	
Wifi	No	Yes

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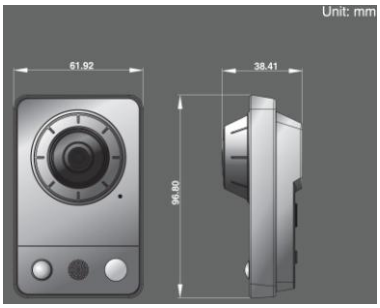
NCT-5211/5201 *HD Cube Camera : Special Cube Camera (wifi optional)*

FEATURES

- HD Megapixel Resolution Supported
- 2DNR (2 Dimensional Noise Reduction)
- ONVIF Supported
- BLC (Back Light Compensation)
- Micro SD Supported
- Triple Compression (H.264, MPEG4, MJPEG)
- Triple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking



SPECIFICATION

Model	NCT-5211	NCT-5201
IMAGE		
Image Sensor	1/4" CMOS	
Lens	Fixed f=2.6mm	
Scanning Mode	Progressive Scan	
Min. Illumination	1Lux	
AE/AWB	Yes	
DNR	2DNR	
D & N	No	
WDR	No	
DIS	No	
BLC	BLC	
ABF/RF	No	
IR	No	
VIDEO		
Video Out	No	
Progressive Encoding	Yes	
Compression	H.264(BP/MP/HP), MPEG4, MJPEG	
Resolution Supported	1600 x 1200, 720p, D1, VGA, QVGA	
Frame Rate	1600 x 1200p @ 15fps, 1280 x 720p @ 30fps	
Multiple Streaming	Triple	
IN / OUT		
Audio In/Out	No	
Alarm In/Out	No	
RS485	No	
Ethernet	10/100Mbps	
Local Storage	Micro SD	
FEATURE		
Motion Detection	Max. 8 Areas	
Event Buffering (Pre & Post)	Yes (2s/60s)	
Privacy Masking	Yes	
PrVA (Pre-recorded	Yes	

Voice Alert)		
Video Analytics	No	
Cross Web Browser	Yes	
FTP Image Upload	Yes	
ONVIF Certificate	Yes	
SYSTEM		
Network Time Sync	Yes	
Zero Configuration	Yes	
Security	Password Protection, IP Filtering, HTTPS, SSL	
NETWORK		
Max. Connections	10	
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, SNMP, Bonjour	
NAS Support	Yes	
JPEG push	Yes	
DDNS	Yes (DDNS)	
Remote Client	Web, NC Titanium, Smart Manager	
MISCELLANEOUS		
Weatherproof	No	
PoE	802.3af Class2	No
Power	PoE, DC 5V	DC 5V
Power Consumption	3.5W	
Operating Temperature	0˚C ~ 40˚C	
Humidity	0 ~ 90% RH	
External Dimension	61.92 x 38.41 x 96.80 mm	
MECHANICAL		
PIR Sensor	No	
Illumination LED	No	
SPEAK & MIC	No	
Wifi	No	Yes

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HDB-T300

HD 720p Resolution Network Camera

FEATURES

- HD 720p Resolution Supported
- 2 DNR
  (2 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- Two-way Audio
- Micro SD Supported
- Multiple Compressions
  (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert

SPECIFICATIONS

Model	HDB-T300
Image Sensor	1/2.7" CMOS
Lens	Optional (Megapixel, C/CS mount)
Scanning Mode	Progressive Scan
Min. Illumination	Color : 2.5Lux, B/W : 0.2Lux(F1.2, 50IRE)
AE/AWB	Yes
DNR	2 DNR
D&N	True D&N (IR-cut filter)
WDR	No
DIS	No
BLC	BLC
Video Out	1 BNC (Max. D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	720p, D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Dual
Audio In/Out	1 / 1 (G711)
Alarm In/Out	1 / 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering(Pre/Post)	Yes (up to 64MB)
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (3 files)

Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temp.	0˚C to 50˚C
Humidity	0 to 90% RH
External Dimension	68(H) x 81.6(W) x 123.1(D) mm
Approvals	T.B.D

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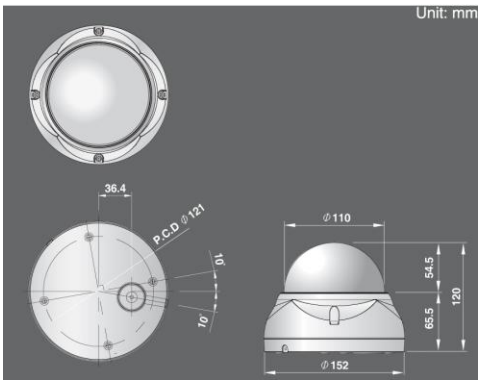
HDG-T300

HD 720p Resolution Vandal-Proof Dome Network Camera

FEATURES

- HD720 Resolution Supported
- DNR (Digital Noise Reduction)
- ONVIF Supported
- Micro SD Supported
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- IP66



SPECIFICATIONS

Model	HDG-T300
Image Sensor	1/2.7" CMOS
Lens	Thamron 3.0 ~ 9.0mm , F1.2
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	DWDR (T.B.D)
DIS	T.B.D
BLC	No
Video Out	1 BNC (Max.D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	720p, D1, Half-D1, VGA, QVGA, CIF, QCIF
Frame Rate	30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Yes
Audio In/Out	1 / 1 Stereo Jack (G711)
Alarm In/Out	1 / 1 Terminal
RS485	No
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic	Yes, H.264 CBR (up to 8Mbps)

Adjustable Bit Rate)	
Event Buffering(Pre/Post)	Yes (up to 64MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (4 files)
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	IP66
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temperature	0 ~ 50°C (T.B.D)
Approvals	FCC, CE, UL

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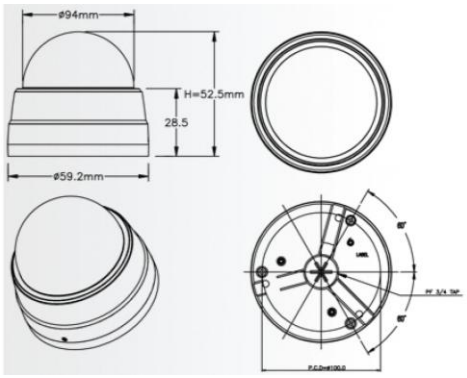
HDG-T312

1.3Megapixel Resolution Indoor Dome Network Camera

FEATURES

- 1.3MP Resolution Supported (1280 x 1024)
- ONVIF Supported
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Dual Streaming
- DNR (Digital Noise Reduction)
- Digital WDR (Wide Dynamic Rage)
- BNC for Installation (Focus, Angle, ...)
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)



SPECIFICATIONS

Model	HDG-T312
Image Sensor	1/2.7" CMOS
Lens	Thamron 3.0 ~ 9.0mm , F1.2
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	No
BLC	No
Video Out	1 BNC (Max. D1 for installation)
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	1280x1024, 720p, D1, Half-D1, VGA, QVGA, CIF, QCIF
Frame Rate	30fps @ H.264 720p + 30fps @ MJPEG 720p
Multiple Streaming	Yes
Audio In/Out	No
Alarm In/Out	1/1 Terminal
RS485	No
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	Yes, H.264 CBR(up to 8Mbps)

Event Buffering(Pre/Post)	Yes (up to 64MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (4 files)
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temperature	0 ~ 50°C (T.B.D)
Approvals	FCC, CE, UL

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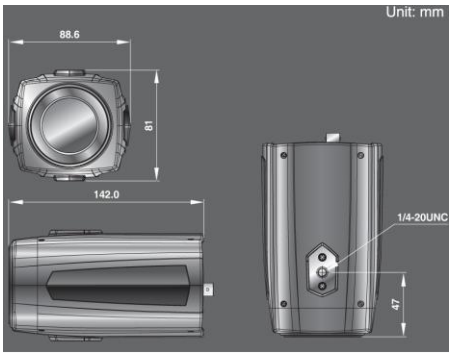
HDZ-A411

HD 720p Resolution 18x Auto Focus Zoom Network Camera with 1.3M CCD

FEATURES

- 18x Auto Focus Zoom Lens
- 1.3MP Resolution Supported (1280 x 960)
- WDR Supported
- ONVIF Supported
- Two-way Audio
- SD Supported
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert



SPECIFICATIONS

Model	HDZ-A411
Image Sensor	1/3" CCD
Lens	Optical Zoom 18x(f=4.7 ~ 84.6mm) F1.6(wide) ~ F2.8(tele)
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	No
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	No
BLC	No
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(High, Main, Base line profile), MJPEG
Resolution Support	1280x960, 720p, D1, VGA, QVGA
Frame Rate	1280x960 @ 20fps, 1280x720p @ 30fps
Multiple Streaming	Max.4 Multiple stream (3x H.264 and 1x MJPEG)
Audio In/Out	1 Mic/1 Speaker (G711)
Alarm In/Out	2 / 1
RS485	Yes
Ethernet	10/100Mbps
Memory Slot	SD
Motion Detection	Max.12 Areas
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic	H.264 CBR Mode : up to 6Mbps

Adjustable Bit Rate)	
Event Buffering(Pre/Post)	Yes
Event Notification	Yes
Privacy Masking	Yes
PrVA(Pre-Recording Voice Alert)	Yes
Web Casting	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, SNMP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	TBD
Operating Temperature	0 ~ 50˚C
Approvals	FCC, CE, UL, MIC

HDA-A411F

HD 720p Resolution IR Bullet Network Camera with 18x Auto Focus Built-in Zoom

FEATURES

- 18x Auto Focus Zoom Lens
- 1.3MP Resolution Supported (1280 x 960)
- WDR Supported
- ONVIF Supported
- Two-way Audio
- SD Supported
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert

SPECIFICATIONS

MODEL	HDA-A411F
Image Sensor	1/3" CCD
Lens	Optical Zoom 18x(f=4.7 ~ 84.6mm) F1.6(wide) ~ F2.8(tele)
AE/AWB	Yes
DNR	No
D&N	True D&N (IR-cut filter)
WDR	Yes
IR Range	25m
DIS	No
BLC	No
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(High, Main, Base line profile), MJPEG
Resolution Support	1280x960, 720p, D1, VGA, QVGA
Frame Rate	1280x960 @ 20fps, 1280x720p @ 30fps
Multiple Streaming	Max.4 Multiple stream (3x H.264 and 1x MJPEG)
Audio In/Out	1 Mic / 1 Speaker (G711)
Alarm In/Out	2 / 1
RS485	No
Ethernet	10/100Mbps
Memory Slot	SD
Motion Detection	Max.12 Areas
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic	H.264 CBR Mode : up to 6Mbps

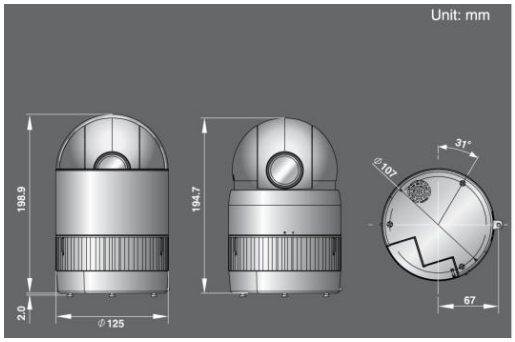
Adjustable Bit Rate)	
Event Buffering(Pre/Post)	Yes
Event Notification	Yes
Privacy Masking	Yes
PrVA(Pre-Recording Voice Alert)	Yes
Web Casting	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes(DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	Yes
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	TBD
Operating Temperature	0 ~ 50℃
Approvals	FCC, CE, UL, MIC

HDS-A411

HD 720p Resolution 18x High Speed Dome Network Camera with 1.3M CCD

FEATURES

- 1.3MP(1280X960) Resolution Supported
- 360° Continuous Rotation
- 180° Digital Flip
- 4 Auto Scan and Endless Panning
- 4 Tours, 4 patterns to 200 Seconds
- Two-way Audio Supported
- Analog Video Out (BNC)
- Digital WDR Supported
- DNR (Digital Noise Reduction)
- ONVIF Supported
- Micro SD Supported
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)



SPECIFICATIONS

Model	HDS-A411
Image Sensor	1/3" CCD
Lens	Optical Zoom 18x(f=4.7 ~ 84.6mm) F1.6(wide) ~ F2.8(tele)
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	Yes
D&N	True D&N (IR-cut filter)
WDR	Yes
BLC	Yes
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264 (High, Main, Base line profile), MJPEG
Resolution Support	1280x960, 720p, D1, VGA, QVGA
Frame Rate	1280x960 @ 20fps, 1280x720p @ 30fps
Multiple Streaming	Max. 4Multiple stream (3x H.264 and 1x MJPEG)
Audio In/Out	1 Mic/1 Speaker (G711)
Alarm In/Out	2 / 1
RS485	Yes
Ethernet	10/100Mbps
Memory Slot	Micro SD
Motion Detection	Max. 12 Areas
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
Bitrate Control	H.264 CBR Mode : up to 6Mbps
Event Buffering(Pre/Post)	Yes
Event Notification	Yes

PrVA(Pre-Recording Voice Alert)	Yes
Web Casting	Yes
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, SNMP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	TBD
Operating Temperature	0 ~ 50°C
External Dimension	202(H)mm x 125(Φ)mm
Approvals	FCC, CE, UL, MIC
Pan Range	360° Endless
Pan Speed	380°/sec, Maximum Preset : 380°/sec
Tilt Range	200° (-10 ~ 190°)
Tilt Speed	Max 300°, Preset : 380°/sec
Preset	240

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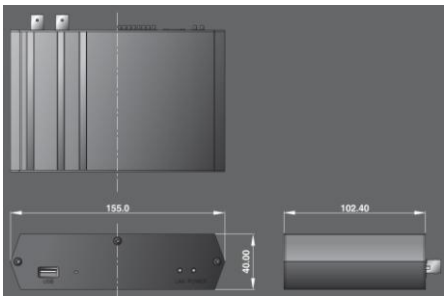
HEV0118H

1Ch, H.264, D1 Resolution Network Video Server

FEATURES

- H.264 (BP/MP/HP), MPEG4 (ASP/SP), MJPEG
- Bi-Directional Audio : G.711
- Video Motion Detection
- Dual Streaming
- PoE Support
- USB 2.0
- Analog Video Output
- Alarm Buffering
- Triple Power : DC 12V, AC 24V, PoE



SPECIFICATIONS

Model	HEV0118H
Video Out	Yes
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	704 x 576, 704 x 480 ~ 160 x 120
Frame Rate	30fps @ H.264 4CIF + 30fps @ MJPEG 4CIF
Multiple Streaming	Dual
Audio In/Out	1 / 1 (G711)
Alarm In/Out	2 / 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	No
Motion Detection	Yes
Event Buffering(Pre/Post)	Yes
Privacy Masking	No
PrVA(Pre-Recording Voice Alert)	Yes (4 files)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Zero Configuration	No
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
NAS Support	No
JPEG push	No
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2/3
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 5W
Operating Temp.	0˚C to 50˚C
Humidity	0 to 90% RH
External Dimension	155(H) x 40(W) x 102.4(D) mm
Approvals	T.B.D

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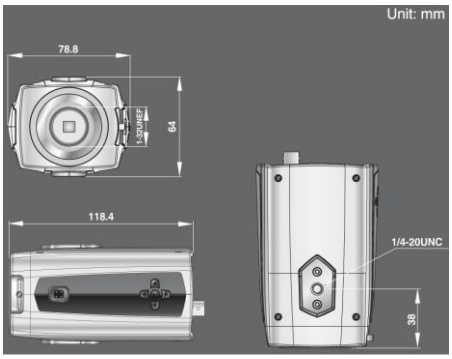
HPCB-E(F)5WNH9

Standard Resolution Network Camera

FEATURES

- Full Frame Rate up to D1 Resolution
- D-WDR (Digital Wide Dynamic Range)
- 3DNR (3 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- HSBLC (Highlight Suppression BLC)
- Two-way Audio
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert



SPECIFICATIONS

MODEL	HPCB-E(F)5WNH9
Image Sensor	1/3" SONY Super HAD CCD
Lens	C/CS
Scanning Mode	Progressive Scan
Min. Illumination	Color : 0.25Lux, B/W : 0.01Lux(F1.2, 50IRE)
AE/AWB	Yes
DNR	3DNR
D&N	True D&N (IR-cut filter)
WDR	DWDR
DIS	No
BLC	BLC, HSBLC
Video Out	1BNC
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	704 x 576, 704 x 480 ~ 160 x 120
Frame Rate	30fps @ H.264 / MPEG4 4CIF + 30fps @ MJPEG 4CIF
Multiple Streaming	Dual
Audio In/Out	1 / 1 (G711)
Alarm In/Out	1 / 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	No
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre/Post)	Yes (up to 64MB)
Privacy Masking	Yes (8 windows)

PrVA (Pre-Recording Voice Alert)	Yes (3 files)
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 4.5W
Operating Temperature	0 to 45℃
Humidity	0 to 90% RH
External Dimension	78.8(W) x 64(H) x 118.4(D) mm
Approvals	T.B.D

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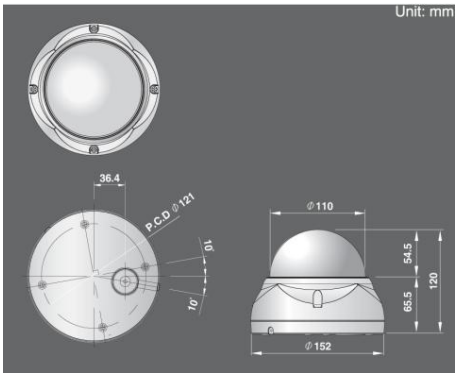
HPCG-E(F)5WNW5S7H8

Standard Resolution Vandal-Proof Dome Network Camera

FEATURES

- Full Frame Rate up to D1 Resolution
- D-WDR (Digital Wide Dynamic Range)
- 3DNR (3 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- HSBLC (Highlight Suppression BLC)
- Two-way Audio
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert
- IP66



SPECIFICATIONS

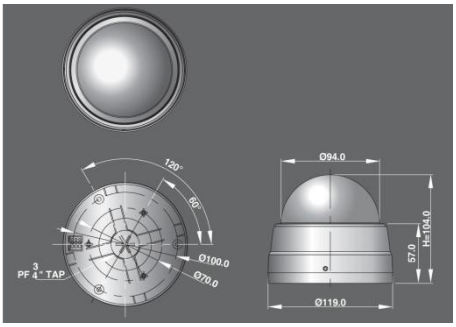
Model	HPCG-E(F)5WNW5S7H8
Image Sensor	1/3" SONY Super HAD CCD
Lens	2.8 ~ 12mm, F1.4
Scanning Mode	Progressive Scan
Min. Illumination	Color : 0.25Lux, B/W : 0.01Lux(F1.2, 50IRE)
AE/AWB	Yes
DNR	3DNR
D&N	True D&N (IR-cut filter)
WDR	DWDR
DIS	No
BLC	BLC, HSBLC
Video Out	1BNC
Progressive Encoding	Yes
Compression	H.264(BP/MP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	704 x 576, 704 x 480 ~ 160 x 120
Frame Rate	30fps @ H.264 / MPEG4 4CIF + 30fps @ MJPEG 4CIF
Multiple Streaming	Dual
Audio In/Out	1 / 1 (G711)
Alarm In/Out	1 / 1
RS485	No
Ethernet	10/100Mbps
Local Storage	No
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre/Post)	Yes (up to 64MB)
Privacy Masking	Yes (8 windows)
PrVA (Pre-Recording Voice Alert)	Yes (3 files)

Video Analytics	No
Cross Web Browser	Yes
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	IP66
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 4.5W
Operating Temperature	0 to 50℃
Humidity	0 to 90% RH
External Dimension	120(H) x 152(ø) mm
Approvals	T.B.D

HNG-D312S *Superior Image Quality : Standard Network Camera*

Feature

- Full Frame Rate up to D1 Resolution
- D-WDR (Digital Wide Dynamic Range)
- 3DNR (3 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- ONVIF Supported
- BLC (Back Light Compensation)
- HSBLC (Highlight Suppression BLC)
- Two-way Audio
- Micro SD Supported
- Multiple Compression (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Explosure (AE)
- Auto White Balance (AWB)
- Privacy Masking



Specification

Model	HNG-D312S
IMAGE	
Image Sensor	1/3" CCD (Sony HAD)
Lens	2.8mm ~ 12mm, F1.4
Scanning Mode	Interlaced Scan
Min. Illumination	Color : 0.25Lux, B/W : 0.01Lux (F1.2, 50IRE)
AE/AWB	Yes
DNR	3DNR
D & N	True D & N (IR Cut Filter)
WDR	DWDR
DIS	No
BLC	BLC, HSBLC
VIDEO	
Video Out	Yes (2P Header)
Progressive Encoding	No
Compression	H.264(HP/MP/BP), MPEG4(ASP/SP), MJPEG
Resolution Supported	D1, Half-D1, VGA, QVGA, CIF
Frame Rate	30fps @ H.264/MPEG4 CIF + 30fps @ MJPEG 4CIF
Multiple Streaming	Dual
IN / OUT	
Audio In/Out	No
Alarm In/Out	In x 1 / Out x 1
RS485	No
Ethernet	10/100Mbps
Local Storage	Micro SD
FEATURE	
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre & Post)	Yes (10s/180s)
Privacy Masking	Yes (8 windows)

PrVA (Pre-recorded Voice Alert)	No
Video Analytics	No
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
SYSTEM	
Network Time Sync	Yes
Zero Configuration	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
NETWORK	
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
MISCELLANEOUS	
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC12V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temperature	0 ~ 50℃
Humidity	0 ~ 90% RH
External Dimension	Φ119 x 104mm
Approvals	T.B.D

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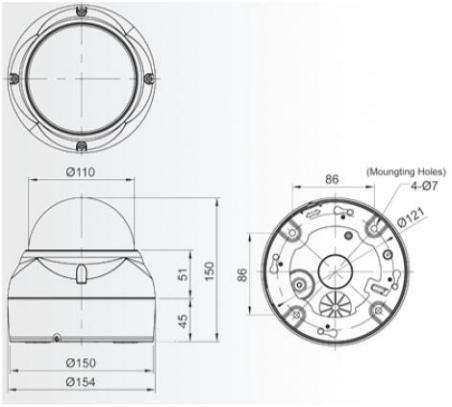
HNV3H22D1N(P)SH1

Standard Resolution Speed Dome Network Camera with 22x Zoom

FEATURES

- 22x Auto Focus Zoom Lens
- Standard Resolution Supported
- WDR Supported
- DIS (Digital Image Stabilization)
- BLC (Back Light Compensation)
- ONVIF Supported
- Two-way Audio
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert



SPECIFICATIONS

Model	HNV3H22D1N(P)SH1
Image Sensor	1/4" Sony CCD (Ex View HAD), 580TVL
Lens	3.9 ~ 85.8mm
Scanning Mode	Interlaced Scan
AE/AWB	Yes
DNR	DNR
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	Yes
BLC	Yes
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(MP/BP), MPEG4(ASP/SP), MJPEG
Resolution Support	D1, Half-D1, CIF, QCIF
Frame Rate	30fps @ H.264 D1 + 30fps @ MJPEG D1
Multiple Streaming	Yes
Audio In/Out	1 / 1 Stereo Jack (G726)
Alarm In/Out	1 / 1 Terminal
RS485	RS485
Ethernet	10/100Mbps
Memory Slot	No
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	Yes, H.264 CBR (up to 4Mbps)

Event Buffering(Pre/Post)	Yes (up to 5MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (4 files)
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	IP66
PoE	No
Power	DC 12V
Power Consumption	Max. 13W (T.B.D)
Operating Temperature	0 ~ 45˚C (T.B.D)
Approvals	FCC, CE, (UL)

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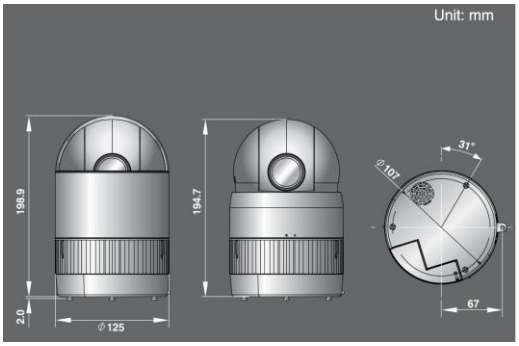
HNS-P183

Standard Resolution High Speed Dome Network Camera with 36x Zoom

FEATURES

- 36x Auto Focus Zoom Lens
- Standard Resolution Supported
- WDR Supported
- DIS (Digital Image Stabilization)
- BLC (Back Light Compensation)
- ONVIF Supported
- Two-way Audio
- Multiple Compressions (H.264, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert



SPECIFICATIONS

Model	HNS-P183
Image Sensor	1/4" Sony CCD (Ex View HAD), 580TVL
Lens	3.4 ~ 122.4mm
Scanning Mode	Interlaced Scan
AE/AWB	Yes
DNR	DNR
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	Yes
BLC	Yes
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(MP,BP), MPEG4(ASP/SP), MJPEG
Resolution Support	D1, Half-D1, CIF, QCIF
Frame Rate	30fps @ H.264 D1 + 30fps @ MJPEG D1
Multiple Streaming	Yes
Audio In/Out	1 / 1 Stereo Jack (G726)
Alarm In/Out	1 / 1 Terminal
RS485	RS485
Ethernet	10/100Mbps
Memory Slot	No
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	Yes, H.264 CBR (up to 4Mbps)

Event Buffering(Pre/Post)	Yes (up to 5MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	Yes (4 files)
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	Yes
Power	DC 12V, AC 24V
Power Consumption	Max. 13Watt (T.B.D)
Operating Temperature	0 ~ 45°C (T.B.D)
Approvals	FCC, CE, (UL)

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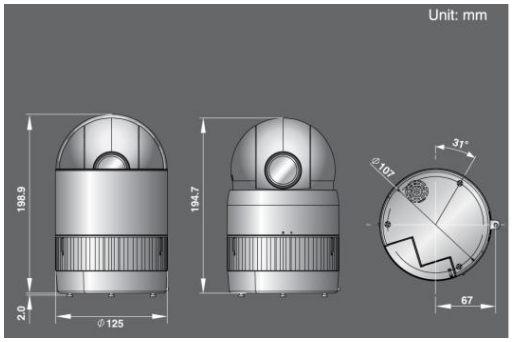
HNS-S113J

Standard Resolution Auto-tracking High Speed Dome Network Camera with 36x Zoom

FEATURES

- 36x Auto Focus Zoom Lens
- Auto-tracking
- Video Analytics
- Full Frame Rate up to D1 Resolution
- WDR Supported
- 3DNR (3 Dimensional Noise Reduction)
- Day & Night (IR Cut Filter)
- DIS (Digital Image Stabilization)
- BLC (Back Light Compensation)
- ONVIF Supported
- Two-way Audio
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Dual Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)
- Privacy Masking
- Pre-recorded Voice Alert



SPECIFICATIONS

Model	HNS-S113J
Image Sensor	1/4" Sony CCD (Ex view HAD), 550TVL
Lens	3.4 ~ 122.4mm 36x A/F Optical Zoom, 12x Digital Zoom
Scanning Mode	Progressive Scan
Min. Illumination	Normal : 1.4Lux Low Shutter : 0.1Lux ICR on & Low Shutter : 0.01Lux
AE/AWB	Yes
DNR	3DNR
D&N	True D&N (IR-cut filter)
WDR	Yes
DIS	Yes
BLC	BLC
Video Out	1 BNC
Progressive Encoding	Yes
Compression	H.264(MP/BP), MPEG4(ASP/SP), MJPEG
Resolution Support	D1, Half-D1, CIF
Frame Rate	30fps @ H.264 D1 + 30fps @ MJPEG D1
Multiple Streaming	Dual
Audio In/Out	1 / 1 (G711)
Alarm In/Out	1 / 1
RS485	RS485
Ethernet	10/100Mbps
Local Storage	No
Motion Detection	Yes (Total 16 Include/Exclude windows)
Event Buffering (Pre/Post)	Yes (10s/180s)
Privacy Masking	Yes (8 windows)
PrVA (Pre-Recording Voice Alert)	Yes (3 files)

Video Analytics	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Zero Configuration	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour
NAS Support	Yes
JPEG push	Yes
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V, AC 24V
Power Consumption	Max. 13Watt (T.B.D)
Operating Temp.	0 ~ 45℃ (T.B.D)
Humidity	0 ~ 90% RH
External Dimension	⌀125 x 194.7 mm
Approvals	T.B.D
Pan Range	360° Endless
Pan Speed	380°/sec, Maximum Preset : 380°/sec
Tilt Range	200° (-10° to +190°)
Tilt Speed	Max 300°, Preset : 380°/sec
Preset	240
Auto Tracking	Yes

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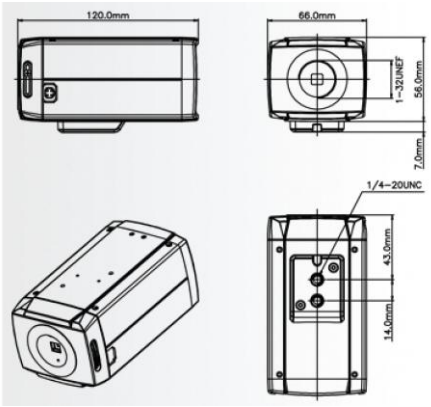
HPCB-C(D)1AAH3S

VGA Resolution Network Camera

FEATURES

- ONVIF Supported
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)



SPECIFICATIONS

Model	HPCB-C(D)1AAH3S
Image Sensor	1/4" CMOS
Lens	C/CS mount
Scanning Mode	Progressive Scan
AE/AWB	Yes
DNR	No
D&N	No
WDR	No
DIS	No
BLC	No
Video Out	No
Progressive Encoding	Yes
Compression	H.264(MP/BP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	VGA, QVGA, CIF
Frame Rate	30fps @ H.264 VGA + 30fps @ MJPEG VGA
Multiple Streaming	Yes
Audio In/Out	No
Alarm In/Out	1 / 1 Terminal
RS485	No
Ethernet	10 / 100Mbps
Memory Slot	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic Adjustable Bit Rate)	Yes, H.264 CBR (up to 4Mbps)

Event Buffering(Pre/Post)	Yes (up to 64MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	No
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V
Power Consumption	Max. 3.5Watt (T.B.D)
Operating Temperature	0 ~ 50°C (T.B.D)
Approvals	FCC, CE, (UL)

All specifications are subject to change without notice.

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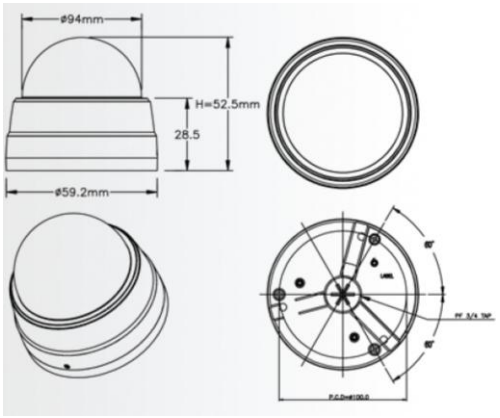
HPCG-C(D)1AAW4AN1H0S

VGA Resolution Network Indoor Dome Camera

FEATURES

- ONVIF Supported
- Multiple Compressions (H.264, MPEG4, MJPEG)
- Multiple Streaming
- Cross Web-Browsing
- Motion Adaptive Transmission
- Dynamic Adjustable Bit Rate
- Event Buffering
- FTP Image Upload
- Web Casting
- Password Protection, IP Filtering
- DDNS Supported
- Auto Exposure (AE)
- Auto White Balance (AWB)



SPECIFICATIONS

Model	HPCG-C(D)1AAW4AN1H0S
Image Sensor	1/4" CMOS
Lens	2.8mm ~ 12mm, F1.4
Scanning Mode	Progressive Scan
Min. Illumination	Color. 0.5Lux (T.B.D)
AE/AWB	Yes
DNR	No
D&N	No
WDR	No
DIS	No
BLC	No
Video Out	No
Progressive Encoding	Yes
Compression	H.264(MP/BP/HP), MPEG4(ASP/SP), MJPEG
Resolution Support	VGA, QVGA, CIF
Frame Rate	30fps @ H.264 VGA + 30fps @ MJPEG VGA
Multiple Streaming	Yes
Audio In/Out	No
Alarm In/Out	1 / 1 Terminal
RS485	No
Ethernet	10 / 100Mbps
Memory Slot	Micro SD
Motion Detection	Yes (Total 16 Include/Exclude windows)
MAT(Motion Adaptive Transmission)	QoS, Auto Traffic Control
DABr(Dynamic	Yes, H.264 CBR (up to 4Mbps)

Adjustable Bit Rate)	
Event Buffering(Pre/Post)	Yes (up to 64MB)
Event Notification	Yes
Privacy Masking	Yes (8 windows)
PrVA(Pre-Recording Voice Alert)	No
Web Casting	Yes
Cross Web Browser	Safari, Firefox, Google Chrome
FTP Image Upload	Yes
ONVIF Certificate	Yes
Network Time Sync	Yes
Soft Reset	Yes
Auto Recovery	Yes
Security	Password Protection, IP Filtering, HTTPS, SSL
Max. Connections	10
Protocols	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP
DDNS	Yes (DDNS)
Remote Client	Web, Nautilus16, Smart Manager
Weatherproof	No
PoE	802.3af Class 2
Power	PoE, DC 12V
Power Consumption	Max. 3.5W (T.B.D)
Operating Temperature	0 ~ 50˚C (T.B.D)
Approvals	FCC, CE, (UL)

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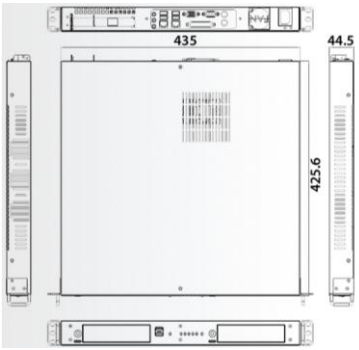
HNS-P11610

Standalone 16 IP Input Network Video Recorder

FEATURES

- 16ch Live / Recording / Search / Playback
- Web-Viewer
- HD/Megapixel Resolution Supported
- NAT Traversal
- Plug & Play Setup (Auto Detection & Connection)
- eSATA
- RAID 0/1
- H.264, MPEG4, MJPEG Supported
- Digital Watermark



SPECIFICATIONS

Model	HNS-P11610
Recording Policy	Continuous / Schedule / Manual Recording
Event Recording	Alarm / Event Recording
Audio Recording	Yes (max. 16h)
Digital Watermark	Yes
Recording Channel	16ch
Recording Frame rate	480fps @ D1 (720x480) 240fps @ 1.3MP (1280x1024) (T.B.D) 120fps @ 1080p (1920x1080) (T.B.D) 90fps @ 3MP (2048x1536) (T.B.D) 60fps @ 5MP (2592x1944) (T.B.D)
Recording Format	H.264, MPEG4, MJPEG
Pre/Post Recording	Pre-recording : 30 sec, Post-recording : 300 sec
Internal Storage	Up to SATA 4.0TB
External Storage	Up to 4TB, 2 x eSATA port
Archive & Backup	eSATA, Remote-client, NAS
Text Recording	Yes (RS-232)
Ethernet	2 x 100/1000 Base-Tx
ONVIF	Yes (ONVIF 2.0 Supported)
Protocol	RTP, RTP over RTSP, RTP over RTSP over HTTP, SMTP, UPnP, NTP, DDNS, DHCP, DSCP, SNMPv3, Bonjour
Zero Configuration	Yes (for easy installation)
Two-way Audio	Yes
DDNS	Yes
UPnP	Yes
NAT Traversal	Yes
PPPoE	Yes

NTP Server	Yes (for connected IP Camera/Encoder)
Setup Wizard	Yes (for easy installation)
Automatic Camera Detection	Yes, Simple Camera Setup
Web Administrator	Yes (Pure Web Administrator)
Email Alert	Yes
Monitoring Mode	1 / 4 / 6 / 8 / 9 / 10 / 12 / 16
Digital PTZ	Yes
Snapshot	Yes
PTZ Control	Yes
Simultaneous Users	Live 3, Playback 3
User Registration	Up to 32 users
User Level	4 levels (Programmable)
Security	ID and Password protection
Search Mode	Calendar, Time & Date, Event, Text
Language	English, Spanish, French, Germany, Italian, Dutch
Local Display	No
eSATA	2ea
RAID	RAIS 0/1
Front LCD	No
Supported UPS Alert	Yes(USB type)
SATA	SATA / SATA Ⅱ 2
Serial Com.	RS-485 / 232 / 422
Operating Temperature	0 ~ 50℃
Humidity	0 ~ 90%

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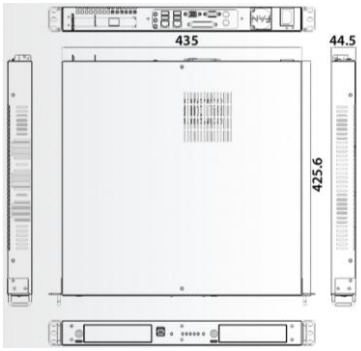
HNS-P11620

Standalone 16 IP Input Network Video Recorder

FEATURES

- 16ch Live / Recording / Search / Playback
- Web-Viewer
- HD/Megapixel Resolution Supported
- NAT Traversal
- Plug & Play Setup (Auto Detection & Connection)
- eSATA
- RAID 0/1
- H.264, MPEG4, MJPEG Supported
- Digital Watermark



SPECIFICATIONS

Model	HNS-P11620
Recording Policy	Continuous / Schedule / Manual Recording
Event Recording	Alarm / Event Recording
Audio Recording	Yes (max. 16h)
Digital Watermark	Yes
Recording Channel	16ch
Recording Frame rate	480fps @ D1 (720x480) 240fps @ 1.3MP (1280x1024) (T.B.D) 120fps @ 1080p (1920x1080) (T.B.D) 90fps @ 3MP (2048x1536) (T.B.D) 60fps @ 5MP (2592x1944) (T.B.D)
Recording Format	H.264, MPEG4, MJPEG
Pre/Post Recording	Pre-recording : 30 sec, Post-recording : 300 sec
Internal Storage	Up to SATA 4.0TB
External Storage	Up to 4TB, 2 x eSATA port
Archive & Backup	eSATA, Remote-client, NAS
Text Recording	Yes (RS-232)
Ethernet	2 x 100/1000 Base-Tx
ONVIF	Yes (ONVIF 2.0 Supported)
Protocol	RTP, RTP over RTSP, RTP over RTSP over HTTP, SMTP, UPnP, NTP, DDNS, DHCP, DSCP, SNMPv3, Bonjour
Zero Configuration	Yes (for easy installation)
Two-way Audio	Yes
DDNS	Yes
UPnP	Yes
NAT Traversal	Yes
PPPoE	Yes

NTP Server	Yes (for connected IP Camera/Encoder)
Setup Wizard	Yes (for easy installation)
Automatic Camera Detection	Yes, Simple Camera Setup
Web Administrator	Yes (Pure Web Administrator)
Email Alert	Yes
Monitoring Mode	1 / 4 / 6 / 8 / 9 / 10 / 12 / 16
Digital PTZ	Yes
Snapshot	Yes
PTZ Control	Yes
Simultaneous Users	Live 3, Playback 3
User Registration	Up to 32 users
User Level	4 levels (Programmable)
Security	ID and Password protection
Search Mode	Calendar, Time & Date, Event, Text
Language	English, Spanish, French, Germany, Italian, Dutch
Local Display	No
eSATA	2ea
RAID	RAIS 0/1
Front LCD	No
Supported UPS Alert	Yes (USB type)
SATA	SATA / SATAⅡ 2
Serial Com.	RS-485 / 232 / 422
Operating Temperature	0 ~ 50℃
Humidity	0 ~ 90%

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NC-Titanium

64Ch. Software NVR

FEATURE

- 7 monitors for live, playback and status
- 4 live monitors as Live1, Live2, Event and E-map
- Up to 64 splits per live monitor displaying
- Up to 16 splits for playback displaying
- Various layout modes
- Channel and layout sequence mode
- Event channel / layout view
- Multi-layered E-map view
- 64 channels recording
- NVR support
- Unlimited recording disk size and configurable multiple disk and device assignment
- Various search modes (manual, weekly schedule, special day schedule, event and event-relay recording)
- Various search modes (time lapse, event and favorite searching) and playback controls
- Remote network device configuration
- Easy PTZ (PTZ panel and in-screen PTZ) and alarm controls
- Useful view and toolbars for easy control (Digital zoom, Audio, Freeze, Manual-Recording, Microphone, Split controls and ect.)
- User and authority management
- Keyword Searching
- Automatic device discovery
- Easy check system and device status and logs
- Automatic / manual check updating and live update
- Event notification, searching and reporting

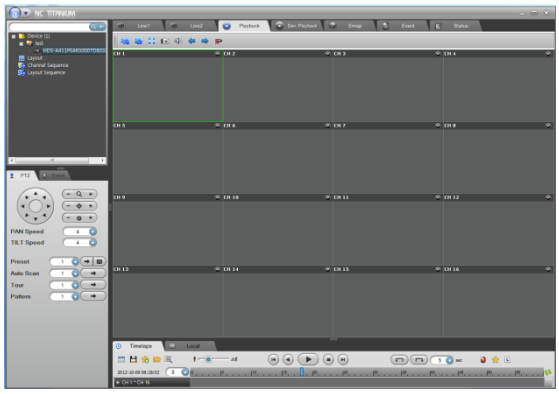
SYSTEM REGUIREMENT

Operating System	Microsoft Windows XP Professional (32 bit or 64 bit) Windows Vista Enterprise / Ultimate (32 bit or 64 bit) Windows 7 Professional / Ultimate (32 bit or 64 bit) (Windows 7 recommended)
CPU	Intel Core 2 Quad processors or higher (Core i7 processor recommended)
RAM	Minimum 1 GB (4 GB or more recommended)
Network	Ethernet (1 Giga bit recommended)
Graphics Adaptor	PCI-Express, minimum 1024 x 768, 16 bit colors (256 MB or more isolated VGA memory, 1920 x 1080, 32 bit colors recommended)
Hard Disk Type	E-IDE, PATA SATA (7200 RPM or faster), Network drives
Hard Disk Space	Minimum 1GB free disk space available for software Minimum 4GB free disk space available for each recording disk
Joystick	USB PC Compatible Joystick
Direct X	Direct X end-user runtimes (June 2010 and later) http://www.microsoft.com/download/en/details.aspx?id=8109

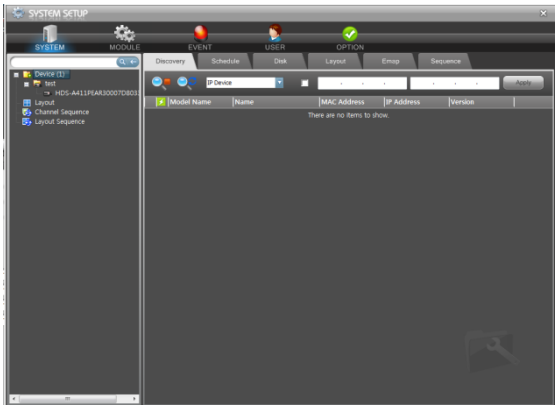
SPECIFICATION

Model	NC-Titanium/1.0.0.0
RECORDING	
Number of Channels	64
Total Recording Bitrate	128Mbps (32 x 4Mbps)
Resolution	1080p, 720p, XGA, D1, VGA, QCIF, QVGA
Modes	Weekly Schedule, Special Day Schedule, Manual, Event-Relay
Special Day	12
Pre/Post-Recording	60sec/180sec
Retention Time	1 day ~ 1 Year
HDD	Internal / External HDD
Overwriting	Yes
Video / Audio	Yes (H.264, MPEG4, MJPEG/G.711, G.726, PCM, AAC)
LIVE VIEW	
View Modes	Live1, Live2, E-map, Event, Popup
Split Modes	4:3 mode, 16:9 mode
Digital Zoom	Yes
PTZ	PTZ Panel, USB Joystick, PTZ in Screen
Audio	Yes (Multi-Selective Audio)
Channel / Layout Sequence	Yes (Unlimited)
Event View	Channel / Layout Popup and List View
Screen Exchange	Yes
Snapshot Mode	Automatic, Manual Save
Snapshot Format	BMP, JPEG, PNG
Aspect Ratio	Yes
Event Notification	Yes
PLAYBACK VIEW	
Channel	16
Date Time Search	Yes
Event Search	Yes
Time Jump	5 ~ 30 sec
Play Speed	x0.5, x1.0, x2.0, x3.0, x4.0, x5.0
Step Playing	Forward / Backward
Event Report	Bar Chart by Event Type
Split Modes	4:3 mode (1, 4, 7, 9, 13, 16), 16:9 mode (12)
Event Notification	Yes
Local File Playback	Yes
Export Footage	Yes (Self-Executable / AVI)
EMAP VIEW	
Configuration	Include (Camera / Sensor / Manual Trigger / Link)
Event Notification	Yes
Popup View	Yes
Multiple E-map	Yes (maximum 64 E-map on a screen)
E-map Control	Zoom / History List / Fit Screen
User E-map Image	Yes (Camera / Sensor / Manual Trigger / Link)
EVENT VIEW	
Device Event Actions	Recording / PTZ Move / Manual Trigger / Sound / Run External Application / SMTP / Event Relay
Real-time Event Notification	Yes
Popup Live View	Channel / Layout with Dwell Time (5 sec ~ Unlimited)
STATUS VIEW	
Status Modes	Device Status / System Status / Device Log
Device Status	Live1 / Live2 Layout mapped Status, Recording / Connection / Event Status
System Status	CPU / Network / Disk Usage, Real-time System Log, Log Search
System Log Search	Monitoring Service / Recording Service Log
Device Log	Yes
Log Export Format	Excel (csv), Text (txt)
FUNCTION	
Live Update	Yes
System Lock / Unlock	Yes
Automatic Login	Yes
Restoration	Yes
OSD Control	Yes
User Management	Yes
Authority Level	Administrator / User
User Assignment	Yes
Language	Export / Import
Video Output Mode	YV12 / YUY2 / RGB32 / RGB565 / RGB555
Device Remote Setup	Yes
System Remote Setup	Yes
Device Searching Query	Yes
Device Discovery	Yes
Full Screen Mode	2 Stages (Full Screen with / without Toolbar)
Hot keys	Split mode control / Split group control / Snapshot

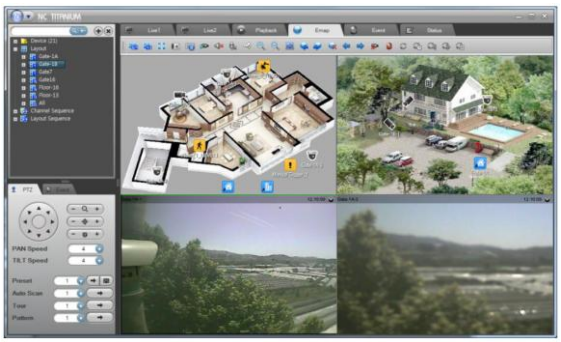
■PLAYBACK■



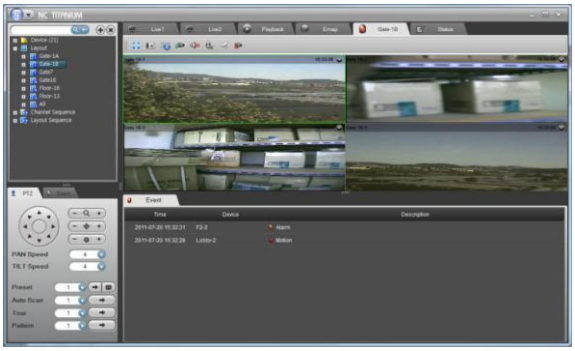
■PLAYBACK■



■E-MAP■



■EVENT LIST■



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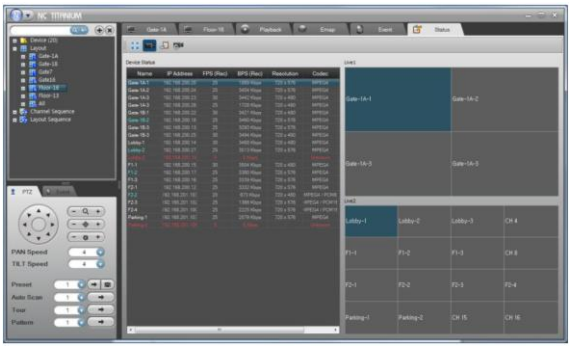

■LIEV VIEW■